

Zoe V Finkel

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

7,797
citations

71061

41
h-index

60583

81
g-index

95
all docs

95
docs citations

95
times ranked

7724
citing authors

#	ARTICLE	IF	CITATIONS
1	Phytoplankton in a changing world: cell size and elemental stoichiometry. <i>Journal of Plankton Research</i> , 2010, 32, 119-137.	0.8	909
2	THE ELEMENTAL COMPOSITION OF SOME MARINE PHYTOPLANKTON1. <i>Journal of Phycology</i> , 2003, 39, 1145-1159.	1.0	614
3	The evolutionary inheritance of elemental stoichiometry in marine phytoplankton. <i>Nature</i> , 2003, 425, 291-294.	13.7	481
4	Influence of diatom diversity on the ocean biological carbon pump. <i>Nature Geoscience</i> , 2018, 11, 27-37.	5.4	451
5	Scaling-up from nutrient physiology to the size-structure of phytoplankton communities. <i>Journal of Plankton Research</i> , 2006, 28, 459-471.	0.8	288
6	The biogeography of marine plankton traits. <i>Ecology Letters</i> , 2013, 16, 522-534.	3.0	258
7	Are you what you eat? Physiological constraints on organismal stoichiometry in an elementally imbalanced world. <i>Oikos</i> , 2005, 109, 18-28.	1.2	240
8	Extinctions in ancient and modern seas. <i>Trends in Ecology and Evolution</i> , 2012, 27, 608-617.	4.2	221
9	Cell size tradeoffs govern light exploitation strategies in marine phytoplankton. <i>Environmental Microbiology</i> , 2010, 12, 95-104.	1.8	215
10	Light absorption and size scaling of light-limited metabolism in marine diatoms. <i>Limnology and Oceanography</i> , 2001, 46, 86-94.	1.6	213
11	Anthropogenic climate change drives shift and shuffle in North Atlantic phytoplankton communities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 2964-2969.	3.3	204
12	Evolutionary Trajectories and Biogeochemical Impacts of Marine Eukaryotic Phytoplankton. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2004, 35, 523-556.	3.8	192
13	Nitrogen-fixation strategies and Fe requirements in cyanobacteria. <i>Limnology and Oceanography</i> , 2007, 52, 2260-2269.	1.6	184
14	Climatically driven macroevolutionary patterns in the size of marine diatoms over the Cenozoic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 8927-8932.	3.3	172
15	Resource limitation alters the 3/4 size scaling of metabolic rates in phytoplankton. <i>Marine Ecology - Progress Series</i> , 2004, 273, 269-279.	0.9	155
16	Phylogenetic Diversity in the Macromolecular Composition of Microalgae. <i>PLoS ONE</i> , 2016, 11, e0155977.	1.1	149
17	Allometry and stoichiometry of unicellular, colonial and multicellular phytoplankton. <i>New Phytologist</i> , 2009, 181, 295-309.	3.5	138
18	Decadal variability in coastal phytoplankton community composition in a changing West Antarctic Peninsula. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2017, 124, 42-54.	0.6	138

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19	Ocean acidification enhances the growth rate of larger diatoms. <i>Limnology and Oceanography</i> , 2014, 59, 1027-1034.	1.6	135
20	Evolutionary inheritance of elemental stoichiometry in phytoplankton. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 526-534.	1.2	118
21	Phytoplankton niches estimated from field data. <i>Limnology and Oceanography</i> , 2012, 57, 787-797.	1.6	118
22	Phytoplankton adapt to changing ocean environments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5762-5766.	3.3	114
23	Paleontological baselines for evaluating extinction risk in the modern oceans. <i>Science</i> , 2015, 348, 567-570.	6.0	111
24	Light Variability Illuminates Niche-Partitioning among Marine Picocyanobacteria. <i>PLoS ONE</i> , 2007, 2, e1341.	1.1	108
25	IS THE GROWTH RATE HYPOTHESIS APPLICABLE TO MICROALGAE?1. <i>Journal of Phycology</i> , 2010, 46, 1-12.	1.0	105
26	The role of microbial exopolymers in determining the fate of oil and chemical dispersants in the ocean. <i>Limnology and Oceanography Letters</i> , 2016, 1, 3-26.	1.6	105
27	A universal driver of macroevolutionary change in the size of marine phytoplankton over the Cenozoic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 20416-20420.	3.3	101
28	Irradiance and the elemental stoichiometry of marine phytoplankton. <i>Limnology and Oceanography</i> , 2006, 51, 2690-2701.	1.6	100
29	On the roles of cell size and trophic strategy in North Atlantic diatom and dinoflagellate communities. <i>Limnology and Oceanography</i> , 2013, 58, 254-266.	1.6	91
30	Contrasting photoacclimation costs in ecotypes of the marine eukaryotic picoplankter <i>Ostreococcus</i> . <i>Limnology and Oceanography</i> , 2008, 53, 255-265.	1.6	83
31	The Macromolecular Basis of Phytoplankton C:N:P Under Nitrogen Starvation. <i>Frontiers in Microbiology</i> , 2019, 10, 763.	1.5	80
32	Physiological basis for high resistance to photoinhibition under nitrogen depletion in <i>Emiliania huxleyi</i> . <i>Limnology and Oceanography</i> , 2010, 55, 2150-2160.	1.6	68
33	Modeling Size-dependent Photosynthesis: Light Absorption and the Allometric Rule. <i>Journal of Theoretical Biology</i> , 2000, 204, 361-369.	0.8	65
34	Environmental control of diatom community size structure varies across aquatic ecosystems. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 1627-1634.	1.2	64
35	Silica Use Through Time: Macroevolutionary Change in the Morphology of the Diatom <i>Fustule</i> . <i>Geomicrobiology Journal</i> , 2010, 27, 596-608.	1.0	57
36	Watercolors in the Coastal Zone: What Can We See?. <i>Oceanography</i> , 2004, 17, 24-31.	0.5	57

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37	Light and nutrient availability affect the size-scaling of growth in phytoplankton. <i>Journal of Theoretical Biology</i> , 2009, 259, 582-588.	0.8	51
38	Molecular mechanisms of temperature acclimation and adaptation in marine diatoms. <i>ISME Journal</i> , 2019, 13, 2415-2425.	4.4	48
39	Ecological equivalence of species within phytoplankton functional groups. <i>Functional Ecology</i> , 2016, 30, 1714-1722.	1.7	47
40	Nitrogen starvation induces distinct photosynthetic responses and recovery dynamics in diatoms and prasinophytes. <i>PLoS ONE</i> , 2018, 13, e0195705.	1.1	47
41	Which environmental factors control phytoplankton populations? A Bayesian variable selection approach. <i>Ecological Modelling</i> , 2013, 269, 1-8.	1.2	43
42	Physiological response of 10 phytoplankton species exposed to macondo oil and the dispersant, Corexit. <i>Journal of Phycology</i> , 2018, 54, 317-328.	1.0	42
43	Mining a Sea of Data: Deducing the Environmental Controls of Ocean Chlorophyll. <i>PLoS ONE</i> , 2008, 3, e3836.	1.1	39
44	Phylogenetic diversity in cadmium : phosphorus ratio regulation by marine phytoplankton. <i>Limnology and Oceanography</i> , 2007, 52, 1131-1138.	1.6	33
45	Marine extinction risk shaped by trait-environment interactions over 500 million years. <i>Global Change Biology</i> , 2015, 21, 3595-3607.	4.2	31
46	Anthropogenic climate change impacts on copepod trait biogeography. <i>Global Change Biology</i> , 2021, 27, 1431-1442.	4.2	31
47	Environmental control of the dominant phytoplankton in the Cariaco basin: a hierarchical Bayesian approach. <i>Marine Biology Research</i> , 2013, 9, 246-260.	0.3	30
48	Size-scaling of macromolecules and chemical energy content in the eukaryotic microalgae. <i>Journal of Plankton Research</i> , 2016, 38, 1151-1162.	0.8	28
49	Response of natural phytoplankton communities exposed to crude oil and chemical dispersants during a mesocosm experiment. <i>Aquatic Toxicology</i> , 2019, 206, 43-53.	1.9	28
50	Traits structure copepod niches in the North Atlantic and Southern Ocean. <i>Marine Ecology - Progress Series</i> , 2018, 601, 109-126.	0.9	25
51	Genotypic and phenotypic variation in diatom silicification under paleo-oceanographic conditions. <i>Geobiology</i> , 2010, 8, 433-445.	1.1	24
52	Light absorption by phytoplankton and the filter amplification correction: cell size and species effects. <i>Journal of Experimental Marine Biology and Ecology</i> , 2001, 259, 51-61.	0.7	21
53	Large centric diatoms allocate more cellular nitrogen to photosynthesis to counter slower RUBISCO turnover rates. <i>Frontiers in Marine Science</i> , 2014, 1, .	1.2	19
54	Phytoplankton traits from long-term oceanographic time-series. <i>Marine Ecology - Progress Series</i> , 2017, 576, 11-25.	0.9	18

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55	Macroevolutionary trends in silicoflagellate skeletal morphology: the costs and benefits of silicification. <i>Paleobiology</i> , 2012, 38, 391-402.	1.3	17
56	Biogeographic distribution of diversity and size-structure of organic-walled dinoflagellate cysts. <i>Marine Ecology - Progress Series</i> , 2011, 425, 35-45.	0.9	16
57	Silicification in the Microalgae. , 2016, , 289-300.		16
58	Trait-dependent variability of the response of marine phytoplankton to oil and dispersant exposure. <i>Marine Pollution Bulletin</i> , 2020, 153, 110906.	2.3	16
59	Basin-scale biogeography of marine phytoplankton reflects cellular-scale optimization of metabolism and physiology. <i>Science Advances</i> , 2022, 8, eabl4930.	4.7	16
60	The Joggins Fossil Cliffs UNESCO World Heritage site: a review of recent research. <i>Atlantic Geology</i> , 0, 47, 185-200.	0.2	15
61	Phytoplankton Realized Niches Track Changing Oceanic Conditions at a Long-Term Coastal Station off Sydney Australia. <i>Frontiers in Marine Science</i> , 2018, 5, .	1.2	15
62	Phytoplankton growth allometry and size- dependent C:N stoichiometry revealed by a variable quota model. <i>Marine Ecology - Progress Series</i> , 2011, 434, 29-43.	0.9	14
63	Influence of Cell Size and DNA Content on Growth Rate and Photosystem II Function in Cryptic Species of <i>Ditylum brightwellii</i> . <i>PLoS ONE</i> , 2012, 7, e52916.	1.1	14
64	Extracting phytoplankton physiological traits from batch and chemostat culture data. <i>Limnology and Oceanography: Methods</i> , 2017, 15, 453-466.	1.0	13
65	Methodological biases in estimates of macroalgal macromolecular composition. <i>Limnology and Oceanography: Methods</i> , 2017, 15, 618-630.	1.0	12
66	Marine Net Primary Production. , 2014, , 117-124.		12
67	Growth dynamics and domoic acid production of <i>Pseudo-nitzschia</i> sp. in response to oil and dispersant exposure. <i>Harmful Algae</i> , 2019, 86, 55-63.	2.2	11
68	Capacity of the common Arctic picoeukaryote <i>Micromonas</i> to adapt to a warming ocean. <i>Limnology and Oceanography Letters</i> , 2020, 5, 221-227.	1.6	9
69	Dynamic Photophysiological Stress Response of a Model Diatom to Ten Environmental Stresses. <i>Journal of Phycology</i> , 2021, 57, 484-495.	1.0	9
70	The macromolecular composition of noncalcified marine macroalgae. <i>Journal of Phycology</i> , 2019, 55, 1361-1369.	1.0	8
71	A ribosomal sequence-based oil sensitivity index for phytoplankton groups. <i>Marine Pollution Bulletin</i> , 2020, 151, 110798.	2.3	8
72	Bayesian inference to partition determinants of community dynamics from observational time series. <i>Community Ecology</i> , 2019, 20, 238-251.	0.5	7

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73	Quantifying nutrient throughput and DOM production by algae in continuous culture. <i>Journal of Theoretical Biology</i> , 2020, 494, 110214.	0.8	7
74	Traits influence dinoflagellate C:N:P. <i>European Journal of Phycology</i> , 2022, 57, 154-165.	0.9	6
75	Growthâ€dependent changes in elemental stoichiometry and macromolecular allocation in the coccolithophore <sc><i>Emiliana huxleyi</i></sc> under different environmental conditions. <i>Limnology and Oceanography</i> , 2021, 66, 2999-3009.	1.6	6
76	Evolutionary mode of the ostracod, <i>Velatomorpha atilis</i> , from the Joggins Fossil Cliffs UNESCO World Heritage Site. <i>Lethaia</i> , 2012, 45, 615-623.	0.6	4
77	Niche conservation in copepods between ocean basins. <i>Ecography</i> , 2021, 44, 1653-1664.	2.1	4
78	Elemental and macromolecular composition of the marine Chloropicophyceae, a major group of oceanic photosynthetic picoeukaryotes. <i>Limnology and Oceanography</i> , 2022, 67, 540-551.	1.6	4
79	Photosynthetic adaptation to light availability shapes the ecological success of bloomâ€forming cyanobacterium <i>Pseudanabaena</i> to iron limitation. <i>Journal of Phycology</i> , 2020, 56, 1457-1467.	1.0	3
80	Community- and population-level changes in diatom size structure in a subarctic lake over the last two centuries. <i>PeerJ</i> , 2015, 3, e1074.	0.9	3
81	Conservation and architecture of housekeeping genes in the model marine diatom <i>Thalassiosira pseudonana</i>. <i>New Phytologist</i> , 2022, 234, 1363-1376.	3.5	3
82	Bayesian two-part modeling of phytoplankton biomass and occurrence. <i>Hydrobiologia</i> , 0, , 1.	1.0	2
83	A Trait-Based Clustering for Phytoplankton Biomass Modeling and Prediction. <i>Diversity</i> , 2020, 12, 295.	0.7	1
84	Contrasting transcriptomic responses of a microbial eukaryotic community to oil and dispersant. <i>Environmental Pollution</i> , 2021, 288, 117774.	3.7	1
85	Crude oil and particulate fluxes including marine oil snow sedimentation and flocculant accumulation: Deepwater Horizon oil spill study. <i>International Oil Spill Conference Proceedings</i> , 2021, 2021, .	0.1	1
86	A hypothesis of genome structure in marine phytoplankton. <i>Journal of Eukaryotic Microbiology</i> , 2005, 52, 7S-27S.	0.8	0
87	Reply to Brun et al.: Fingerprint of evolution revealed by shifts in realized phytoplankton niches in natural populations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E5225-E5225.	3.3	0
88	Phytoplankton. , 2020, , 1-6.		0